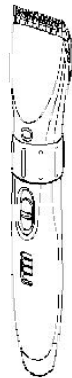


ORDER NO. SD0601K30CE3

Service Manual

**AC/Rechargeable Hair Clipper for Professional
ER154-K3**

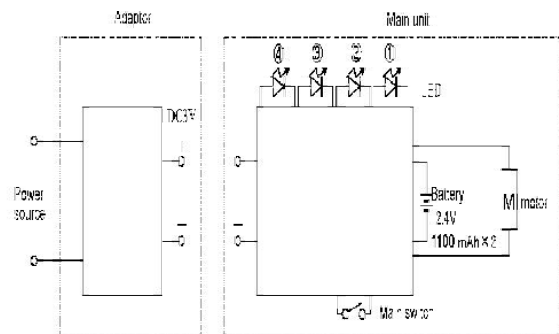


SPECIFICATIONS

| SPECIFICATIONS | |
|-----------------------|--|
| Power source | AC/Rechargeable AC 220V, 50Hz |
| Charging time | 1 hour |
| Weight | 200g |
| Supplied accessories | Comb attachment (3mm/4mm) Oil Cleaning brush |

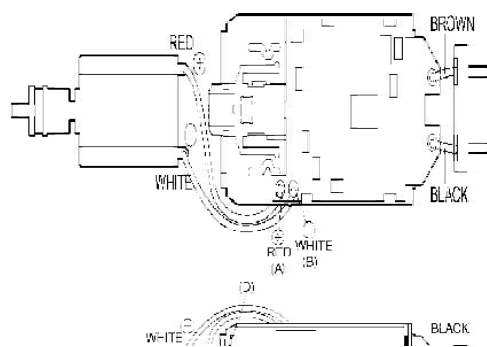
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1. SCHEMATIC DIAGRAM



| LED | Battery capacity monitor | Charge status lamp | Indication | Status |
|-----|--------------------------|--------------------|------------------|---|
| 1 | Green | high | | 100 - 71% |
| 2 | Green | mid | | 70 - 41% |
| 3 | Green | low | Green / blinking | less than 40% The unit can be used once or twice more after "low" starts to blink. (Differs depending on the use situation.) |
| 4 | Red | charge | Red / blinking | charging Charging is completed |

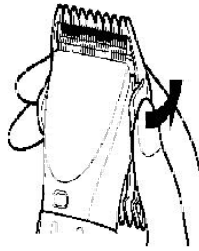
2. WIRING CONNECTION DIAGRAM



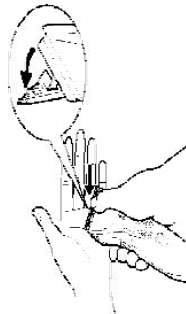
3. DISASSEMBLY INSTRUCTIONS

Follow the procedure below to disassemble the main body.

1. Remove the attachment.



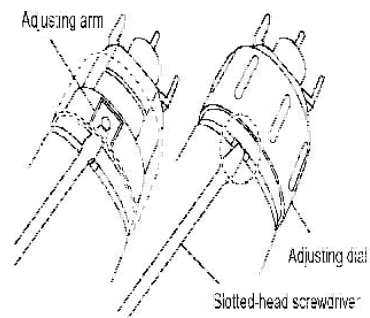
2. First, hold the handle of the hair clipper firmly with the "Panasonic" name facing upward and set the dial to "2.0mm", and push the upper part of the blade away from the housing.



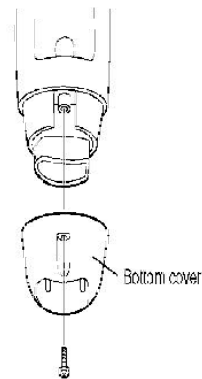
3. Loosen two screws tightening the spring for cutter and take out the spring.

4. Remove the front panel.

5. With the dial at “ 2.0mm” , slide up the adjusting dial to the blade side slightly pushing the adjusting arm with the slotted-head screwdriver.



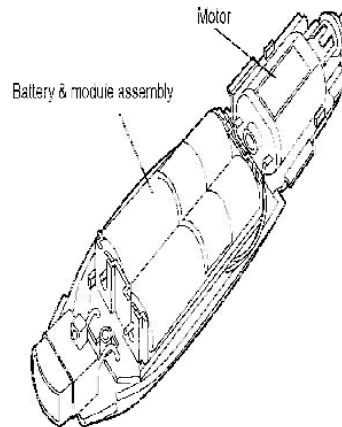
6. Loose a screw and take out the bottom cover.



7. Loosen a screw and take out the name plate slightly inserting the slotted-head screwdriver to unhook the side.



8. Separate housing A and B.

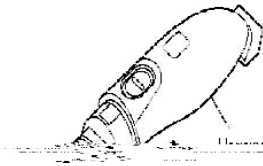


4. ASSEMBLY INSTRUCTIONS

NOTE: Always set the dial to "2.0mm" when removing or attaching the blade; otherwise the blade can not be attached.

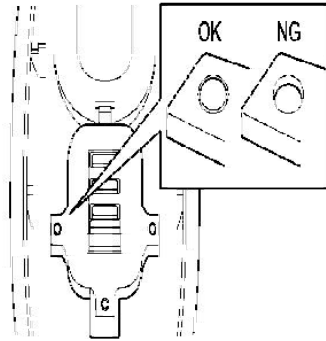
Always set the dial to "0.8mm" when removing or attaching the comb attachment.

1. Set the click button and the dial spring to the housing A.



2. Place the holding plate on the housing A firmly.

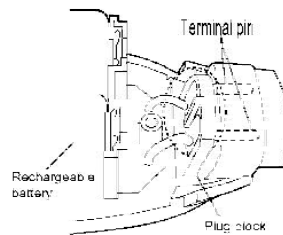
NOTE: Confirm if housing bosses completely cover the hole of holding plate.



3. Insert the terminal pins into the hole of housing A firmly and set the battery & module assembly into the housing A.

NOTE: Confirm to set the switch handle OFF position. And make sure that the projection of switch handle fixing frame connects to the slit of switch plate.

NOTE: Confirm the smooth movement and operation of switch handle.

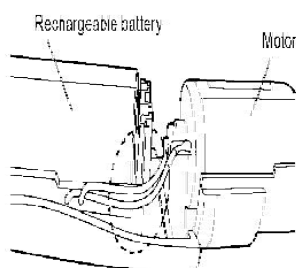


4. Insert the motor facing the sticker on the housing B side.

NOTE: The motor has a own direction. Make sure to set the proper direction when reassembling.

NOTE: Be certain that the lead wires are mounted in the proper position without setting over the housing ribs.

NOTE: Confirm the smooth movement of click button and the motor rotates when switching ON.



5. Close the housing B on the housing A.

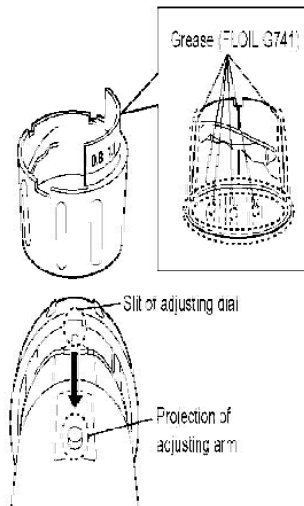
NOTE: Make sure of the position of lead wires to prevent pinching.

NOTE: Confirm that the motor rotates when switching ON.



6. Applying GREASE (FLOIL G741) on the dial. Put two dials together and align the slit of adjusting dial with the projection of adjusting arm to assemble the dial.

NOTE: Confirm the smooth movement of adjusting dial.



- 7. Attach the dust-proof rubber.**
- 8. Set the front panel.**
- 9. Attach the spring for cutter tighten with two screws.**
- 10. Attach the bottom cover with a screw.**
- 11. Tighten a screw and set the name plate.**



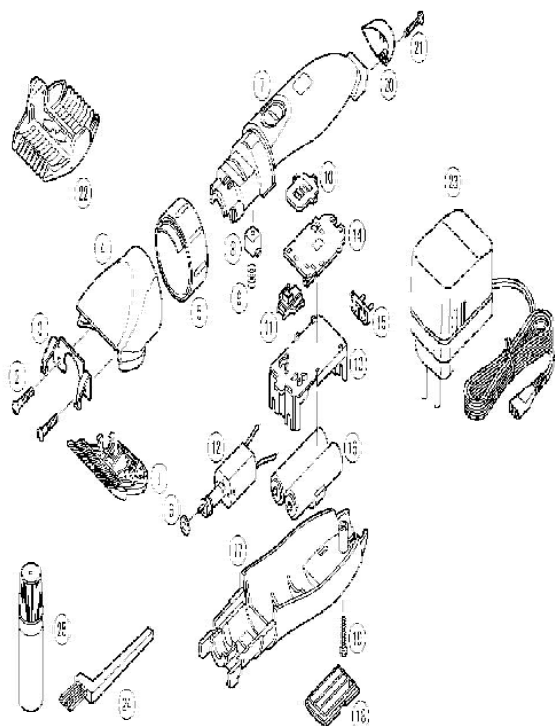
5. TROUBLESHOOTING GUIDE

(Refer to **WIRING CONNECTION DIAGRAM**)

| <TROUBLE> | <CHECK> | <REMEDY> |
|--|---|---|
| Does not operate. Motor does not operate. | <p><CHECK POWER CORD UNIT></p> <p>Supply rated voltage to the power cord unit. OK if it is more than DC 3.0V between the terminals of the plug.</p> <p>OK</p> | <p>N/D</p> <p>→ Replace the power cord unit.</p> |
| | <p><CHECK SWITCH></p> <p>Check if there is a continuity and no deformation of switch terminal.</p> <p>OK</p> | <p>N/D</p> <p>→ Adjust the switch contact plate.</p> |
| | <p><CHECK MOTOR></p> <p>The motor should turn when 2.4V DC is applied to terminals.</p> <p>OK</p> | <p>N/D</p> <p>→ Replace the motor.</p> |
| | <p><CHECK MODULE></p> <p>When switching ON, check the continuity between (A) and (B). OK if it is more than DC 2.4V.</p> <p>OK</p> | <p>N/D</p> <p>→ Replace the module.</p> |
| | <p><CHECK RECHARGEABLE BATTERIES></p> <p>Check if the voltage of rechargeable battery is more than approximately 2.4V DC between (D) and (E) terminals. (Replace two rechargeable batteries at the same time, even though one battery is defective due to series connection.)</p> <p>OK</p> | <p>N/D</p> <p>→ Replace the rechargeable batteries.</p> |
| Does not charge. The charge starts, but no does not light up. | <p><CHECK RECHARGEABLE BATTERIES></p> <p>Check if the voltage of rechargeable battery is more than approximately 2.4V DC between (D) and (E) terminals. (Replace two rechargeable batteries at the same time, even though one battery is defective due to series connection.)</p> <p>OK</p> | <p>N/D</p> <p>→ Replace the rechargeable batteries.</p> |
| | <p><CHECK CHARGING CURRENT></p> <p>Inside (+) terminals of battery, also connect the power cord unit to AC power supply with switch OFF. Measure the charging current between (F) and (G), and OK if it is approximately 120mA±30mA.</p> <p>OK</p> | <p>→ Replace the module.</p> |



6. EXPLODED VIEW



7. REPLACEMENT PARTS LIST

| Ref. No. | Part No. | Part Name & Description | Remarks | | | Per Unit |
|----------|-------------|-------------------------|---------|-------------|-----------|----------|
| 1 | WER9792E | BLADE BLOCK | | | | 1 |
| 2 | WER151L9207 | TAPPING SCREW | *C | K2.6-8 | | 2 |
| 3 | WER154L0168 | SPRING FOR CUTTER | | | | 1 |
| 4 | WER154S3969 | FRONT PANEL | | | | 1 |
| 5 | WER154S3288 | ADJUSTING DIAL | | | | 1 |
| 6 | WER150L0137 | DUST-PROOF RUBBER | | | | 1 |
| 7 | WER154K3058 | HOUSING A | | | | 1 |
| 8 | WER154L0458 | DIAL CLICK BUTTON | | | | 1 |
| 9 | WER154L0158 | DIAL CLICK SPRING | | | | 1 |
| 10 | WER154L3178 | HOLDING PLATE | | | | 1 |
| 11 | WER154L3578 | SWITCH CONTACT PLATE | | | | 1 |
| 12 | WER154L1008 | MOTOR | | | | 1 |
| 13 | WER154L0778 | CHASSIS BLOCK | | | | 1 |
| 14 | WER154L2108 | MODULE | | | | 1 |
| 15 | WER154K2158 | PLUG BLOCK | | | | 1 |
| 16 | WER154L2508 | RECHARGEABLE BATTERY | *B | Ni-Mh Type | (2PCS/PK) | 2 |
| 17 | WER154K3068 | HOUSING B | | | | 1 |
| 18 | WER154K8409 | NAME PLATE | | | | 1 |
| 19 | WER160L9207 | P-TIGHT SCREW | | M2.0-8 | | 1 |
| 20 | WER154K3178 | BOTTOM COVER | | | | 1 |
| 21 | WER160L9107 | SCREW | | M2-6 | | 1 |
| 22 | WER154K7398 | COMB ATTACHMENT A | | 3-4MM | | 1 |
| 23 | WER154K7671 | CHARGING ADAPTOR | | KOREAN PLUG | | 1 |
| 24 | WES76806761 | CLEANING BRUSH | | | | 1 |
| 25 | WER203X7918 | OIL | | | | 1 |
| - | WER154K8009 | INDIVIDUAL BOX | | | | 1 |
| - | WER154K8109 | OPERATING INSTRUCTIONS | | | | 1 |